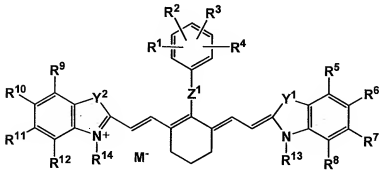
ABSTRACT

A fluorescent probe which specifically and efficiently traps nitrogen monoxide, zinc ion etc. to emit fluorescence is provided.

A compound represented by the following general formula (I):

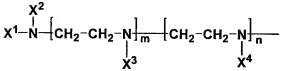
[Formula 1]



(I)

[wherein R^1 and R^2 represent hydrogen atom, or a group represented by the following formula (A):

[Formula 2]



(A)

(wherein X^1 to X^4 represent hydrogen atom, an alkyl group, or a protective group for amino group, and m and n represent 0 or 1); R^3 and R^4 represent hydrogen atom, a $C_{1\text{-}6}$ alkyl group, or a $C_{1\text{-}6}$ alkoxy group; R^5 to R^{12} represent hydrogen atom, sulfo group, phospho group, a halogen atom, or a $C_{1\text{-}6}$ alkyl group; R^{13} and R^{14} represent a $C_{1\text{-}18}$ alkyl group; Z^1 represents oxygen atom, sulfur atom, or $-N(R^{15})-$ (wherein R^{15} represents hydrogen atom, or a $C_{1\text{-}6}$ alkyl group); Y^1 and Y^2 represent $-C(=O)-$, $-C(=S)-$, or $-C(R^{16})(R^{17})$ (wherein R^{16} and R^{17} represent a $C_{1\text{-}6}$ alkyl group); and M^- represents a counter ion in a number required for neutralizing the charge].